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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/652,029	09/02/2003	Shinya Igarashi	056207.51230C1	1536
7	7590 04/21/2004		EXAMINER	
CROWELL & MORING, L.L.P.			THOMPSON, JEWEL VERGIE	
P.O. Box 1430	0 DC 20044-4300		ART UNIT PAPER NUMBER	
washington, 1	3C 20044-4300		2855	
			DATE MAILED: 04/21/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		T	iha/				
÷ q	Application No.	Applicant(s)					
	10/652,029	IGARASHI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jewel V Thompson	2855					
Th MAILING DATE of this communication app Period for Reply	pears on the cov rsh et with the o	orrespondence ad	dr ss				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	: I36(a). In no event, however, may a reply be tin ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed rs will be considered timely the mailing date of this or D (35 U.S.C. § 133).	y. ommunication.				
Status							
1) Responsive to communication(s) filed on	·		,				
	 s action is non-final.						
. —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 8-13 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 8-13 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.						
Application Papers							
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>02 September 2003</u> is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 11.	are: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CF	FR 1.121(d).				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Application ty documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National	Stage				
Attachment(c)							
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate	2.452)				
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>9/2/03</u>.</li> </ol>	5) Notice of Informal F 6) Other:	ratent Application (PTC	J-132)				

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## **DETAILED ACTION**

## Information Disclosure Statement

1. Acknowledgement is made of the Information Disclosure Statement filed September 2, 2003, which has been made record of and placed in the file.

#### Pre-Amendment

2. Acknowledgement is made of the Pre-Amendment filed September 2, 2003, which has been made record of and placed in the file.

# **Double Patenting**

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 8-13 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7 of U.S. Patent No. 6,672,153 in view of Kobayashi et al. Both the '153 and the instant invention teach a system for maintaining after the internal combustion engine stopped, a heating resistor temperature at least equal to the temperature during operation of the internal

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combustion engine until the temperature of the internal combustion engine has decreased below a generation temperature of volatile gas. However, '153 fails to teach a control unit. Kobayashi et al teaches a control unit (81). It would have been obvious to one of ordinary skill in the art at the time that the invention was made to have used the control unit of '023 in the measuring apparatus of the instant invention for the purpose of controlling the amount of fuel injection to an internal combustion engine (col. 16, lines 31-34, '023).

# Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jewel V Thompson whose telephone number is 571-272-2189. The examiner can normally be reached on 7-4:30, off alternate Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jewel V. Shompson

EDWARD LEPKOWITZ SUPERVISORY PATENT EXAMINER

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